

**LANmark-6 Cable**  
**LANmark-6 U/UTP PVC 305m reel in box**  
**Nexans ref.: N100.614**

- Complies to all Category 6 cable standards
- Supports Class E applications
- Central cross member maintains geometry and performance
- Tested up to 350MHz

**Description**

**Application**

LANmark-6 cable is the ultimate solution for a future proof network. It is specifically designed to support the exacting requirements for tomorrow's protocols, yet is fully backwards compatible with today's needs. It is the recommended cable for all forthcoming installations.

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000baseTX Gigabit Ethernet
- 155 MBit ATM
- 622 MBit ATM
- 1.2 Gbit ATM
- Future class E applications

LANmark-6 is independently verified to exceed the requirements of the ISO/IEC 11801:2002 Category 6 requirements.

**Performance**

Tested to 350 MHz and with guaranteed performance to 250 MHz, Nexans LANmark-6 cables provide guaranteed headroom and bandwidth over and above the requirements of all international, european and american cable standards, including ISO/IEC 11801:2002, IEC 61156-5, EN 50173, EN 50288, TIA/EIA 568-B.2-1.

**Installation**







LANmark-6 is installed in exactly the same way as Category 5 cables. The C<sup>3</sup> central cross member reduces the risk of crushing and kinking.

**Guarantees**

Nexans LANmark-6 cable is covered by the guarantee that it is Category 6 and by a parts and labour warranty as described in the Nexans Certified System Warranty.



**Standards**  
**International** EN 50288;  
 IEC 61156-5; ISO/IEC 11801  
**National** TIA/EIA-568-B.2-1

					
operation bending rad. 64.0 mm	static bending rad. 32.0 mm	Ambient install temp. range -10 .. 50 °C	Operating temp. range -20 .. 60 °C	Fire retardant No	Flame retardant IEC 60332-1

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### Characteristics

<b>Construction characteristics</b>	
Type of cable	U/UTP
Outer sheath	PVC
Colour	Grey
Screen	Unshielded
<b>Dimensional characteristics</b>	
Minimum outer diameter	5.9 mm
Maximum outer diameter	6.3 mm
Diameter over insulation	1.02 mm
Conductor cross-section (AWG)	23
Number of pairs	4
Approximate weight	43 kg/km
<b>Electrical characteristics</b>	
Mutual capacitance	56 nF/km
Max. DC-resistance of the conductor at 20° C	70 Ohm/km
Characteristic impedance	100 Ohm
<b>Transmission characteristics</b>	
Attenuation Crosstalk Ratio, 250MHz	5.5 dB/100m
Skew	30 ns/100m
Coupling attenuation at 30 MHz	45 dB
Velocity of propagation	69.0 %
Propagation delay, max. 100 MHz	536 ns/100m
<b>Usage characteristics</b>	
Category	Cat. 6
Range	LANmark-6
Laying operation bending radius	64.0 mm
Minimum static operating bending radius	32.0 mm
Ambient installation temperature, range	-10 .. 50 °C
Operating temperature, range	-20 .. 60 °C
Fire retardant	No
Flame retardant	IEC 60332-1
Length	305 m
Packaging	Reel in a box
Field of application	Fix installations

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**Electrical Performance**

All values are specified at 20°C

Frequency	Attenuation dB/100m	NEXT dB	ACR dB/100m	PSNEXT(*) dB	ELFEXT dB/100m	PSELFEXT dB/100m	RL dB
<b>1</b>	2.0	74.3	72.3	72.3	70.0	67.0	20.0
<b>4</b>	3.8	65.3	61.5	63.3	58.0	55.0	23.0
<b>10</b>	6.0	59.3	53.3	57.3	50.0	47.0	25.0
<b>16</b>	7.6	56.2	48.6	54.3	45.9	42.9	25.0
<b>20</b>	8.5	54.8	46.3	52.8	44.0	41.0	25.0
<b>31.25</b>	10.7	51.9	41.2	49.9	40.5	37.5	23.6
<b>62.5</b>	15.4	47.4	32.0	45.4	34.1	31.1	21.5
<b>100</b>	19.8	44.3	24.5	42.3	30.0	27.0	20.1
<b>155</b>	25.2	41.4	16.2	39.5	26.2	23.2	18.8
<b>200</b>	29.0	39.8	10.8	37.8	24.0	21.0	18.0
<b>250</b>	32.8	38.3	5.5	36.3	22.0	19.0	17.3
<b>300</b>	36.4	37.1	1.5	35.2	20.5	17.5	16.8
<b>350</b>	39.8	36.1	-	34.2	19.1	16.1	14.1

(\*) Dual cable versions additionally comply to the additional PSNEXT requirements for multi-unit cables as specified in the relevant TIA and IEC cable standards.